

Sorbents for Gas Separations



- Technology uses oxygen-selective sorbent materials and pressure swing adsorption
- Cost-effective separation of industrial gases such as oxygen and nitrogen
- Improved combustion efficiency

Alcoa

Bend Research

Pennsylvania State University

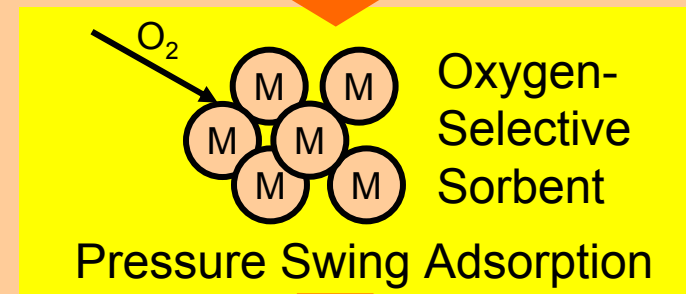
Praxair

Sigma-Aldrich, Inc.

University of New Mexico

Air

- Nitrogen ~ 78%
- Oxygen ~ 21%
- Argon ~ 1%
- Trace amounts of
 - Carbon dioxide
 - Neon
 - Helium
 - Methane
 - Other elements



Potential Products

- Nitrogen/oxygen co-products
- High purity nitrogen
- Argon
- High/low purity oxygen